

STIC Search Report

STIC Database Tracking Number

TO: Karl Tamai

Location: CP4-11A15

Art Unit: 2834

Monday, June 23, 2003

Case Serial Number: 10/040627

From: Darcy Bates Location: EIC 2800

CP4-9C18

Phone: 306-5419

darcy.bates@uspto.gov

Search Notes

Re: 10/040,627 US RE 37,967

Attached are search results.

No U. S. litigation was found in searches of Lexis-Nexis and Questel-Orbit databases.

If more searching or explanation is needed, please let me know.

Thanks, Darcy Bates



Bates, Darcy

From:

Tamai, Karl

Sent: To:

Friday, June 20, 2003 6:27 AM

Bates, Darcy

Subject:

reissue litigation search?

what info do you or jeff need for a litigation search in a reissue application?

app number: 10/040627 In re Reissue Application: Filed: June 5, 1997 Patent No. 5,422,524

Granted: June 6, 1995 Patentee: Koyo Seiko Co., Ltd.

For: ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING THE SAME FOR USE IN VEHICLES

there are two other reissue application at the PTO for the same patent, so you probably have already done this search once.

karl.

Day: Monday Date: 6/23/2003

Time: 08:55:39

PALM INTRANET

Application Number Information

Application Number: 10/040627

Assignments

Filing Date: 01/09/2002

Examiner Number: 73435 / TAMAI, KARL

Group Art Unit: 2834 Class/Subclass: 310/090.000 **IMAGE**

Effective Date: 01/09/2002

Lost Case: NO

Patent Number:

Application Received: 01/09/2002

Interference Number:

Issue Date: 00/00/0000

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: P64591US2

Third Level Review: NO

Secrecy Order: NO Status Date: 06/09/2003

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION Confirmation Number: 3842

Oral Hearing: **NO**

Title of Invention: ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING

SAME FOR USE IN VEHICLES

Bar Code PALM Location Location Da	Charge to L	Loc Charge to Name Emp	loyee Name Location
Appln Contents Petition Info	Atty/Agent Info	Continuity Data	Foreign Data
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PCT /	Search	or PG PUBS#	Search
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Time: 08:55:44

PALM INTRANET

Continuity Information for 10/040627

Parent Data

10040627 is a continuation of 08869844 Which is a reissue of 08152687 is a division of 07203972

Child Data No Child Data

Appin Info Contents Petition Info	Atty/Agent li	Continuity Data	Foreign Data Invent
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Day: Monday Date: 6/23/2003





PALM INTRANET

Application Number Information

Application Number: 08/869844

Assignments

Filing Date: 06/05/1997

Effective Date: 06/05/1997

Application Received: 06/05/1997

Patent Number: RE37967 Issue Date: 01/21/2003

Date of Abandonment: 00/00/0000

Attorney Docket Number: P64591US0

Status: 150 /PATENTED CASE

Confirmation Number: 6235

Examiner Number: 73435 / TAMAI, KARL

Group Art Unit: 2834

Class/Subclass: 310/090.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 01/02/2003

Oral Hearing: **NO**

Title of Invention: ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING

SAME FOR USE IN VEHICLES

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08869844	2811	06/18/2003	28X1	TAMAI, KARL	NGO,CHAU	CP4/03/C 32

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Continuity Information for 08/869844

Parent Data 08869844

is a reissue of 08152687 is a division of 07203972

Child Data

10040627 is a continuation of 08869844

Contents Petition Info	Atty/Age	Continuity Data	Foreign Data
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Day : Monday Date: 6/23/2003

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PALM INTRANET

Application Number Information

Application Number: 08/152687

Assignments

nts

Filing Date: 11/16/1993 Effective Date: 11/16/1993

Effective Bate. 14/10/1995

Application Received: 11/16/1993

Patent Number: **5422524**Issue Date: **06/06/1995**

Date of Abandonment: 00/00/0000

Attorney Docket Number: P133005

Status: 150 /PATENTED CASE

Confirmation Number: 2005

Examiner Number: 69091 / HASZKO, DENNIS

Group Art Unit: 2102

Gloup Art Offit. 2102

Class/Subclass: 310/090.000

Lost Case: NO

Interference Number:

Unmatched Petition: **NO**

L&R Code: Secrecy Code:1

Third Level Review: **NO**

Secrecy Order: **NO**

Status Date: 05/26/1995

Oral Hearing: **NO**

Title of Invention: ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING

SAME FOR USE IN VEHICLES

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08152687	2811	06/16/2003	28X1	TAMAI, KARL	NGO,CHAU	CP4/03/C 32

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Day : Monday Date: 6/23/2003

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PALM INTRANET

Continuity Information for 08/152687

Parent Data

08152687

is a division of 07203972

Child Data

08869844 is a division of 07203972 10040627 is a continuation of 08869844

Appln Info	Contents in the Petition Int	out dispusation	ent info Continuity Data	Foreign Data
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Day: Monday Date: 6/23/2003

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PALM INTRANET

Application Number Information

Application Number: 07/203972

Assignments

Examiner Number: 59883 / FOOTLAND, LENARD

Filing Date: 06/08/1988

Group Art Unit: 2405

Effective Date: 06/08/1988

Class/Subclass: 384/492.000

Application Received: 06/08/1988

Lost Case: NO

Patent Number:

Appeal Number: 931131

Issue Date: 00/00/0000 Date of Abandonment: 11/23/1993 Unmatched Petition: NO L&R Code: Secrecy Code:1

Attorney Docket Number: P13-1560-A88

Third Level Review: NO

Status: 164 / ABANDONED -- FAILURE TO PAY ISSUE FEE

Secrecy Order: NO Status Date: 11/23/1993

Confirmation Number: 5752

Oral Hearing: YES

Title of Invention: ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING

SAME FOR USE IN VEHICLES

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
07203972	2811	06/17/2003	28X1	TAMAI, KARL	NGO,CHAU	CP4/03/C 32

Appln Info Contents Petition Info Atty/Agent Info	Continuity Data Foreign Data Inve
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Day: Monday Date: 6/23/2003

Time: 08:56:09

PALM INTRANET

Continuity Information for 07/203972

Parent Data No Parent Data

Child Data

08152687 is a division of 07203972 08869844 is a division of 07203972 10040627 is a continuation of 08869844

Apoin Info Contents Petition Info	Atty/Agent Info	Continuity Data	Foreign Data Invent
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Terms: 37967 (Edit Search)

869844 (08) RE 37967 January 21, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT RE **37967**

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Link to Claims Section

January 21, 2003

Antifriction bearing and alternator incorporating same for use in vehicles **INVENTOR:** Nakamura, Sigenobu - Anjo, Japan (JP); Siga, Tutomu - Aichi-ken, Japan (JP); Mitani, Kenzo - Obu, Japan (JP); Fujita, Yoshiki - Osaka, Japan (JP); Kitamura, Masayuki - Osaka, Japan (JP); Miyazaki, Hiroyuki - Osaka, Japan (JP); Hoshino, Teruo - Osaka, Japan (JP)

APPL-NO: 869844 (08)

FILED-DATE: June 5, 1997

GRANTED-DATE: January 21, 2003

PRIORITY: June 10, 1987 - 62145483, Japan (JP); June 10, 1987 - 62145484, Japan (JP)

ASSIGNEE-AT-ISSUE: Koyo Seiko Co., Ltd., Osaka, Japan (JP), 03

Denso Corporation, Kariya, Japan (JP), 03

LEGAL-REP: Jacobson Holman PLLC

PUB-TYPE: January 21, 2003 - Reissue Patent (E1)

PUB-COUNTRY: United States (US)

REL-DATA:

Reissue of: 08/152687, November 16, 1993, PENDING 05422524, June 6, 1995

US-MAIN-CL: 310#90

US-ADDL-CL: 310#42, 29#898.14

CL: 310, 29

SEARCH-FLD: 310#90, 310#42, 029#898.14

IPC-MAIN-CL: 7F 16C035#0

IPC ADDL CL: H 02K005#16

PRIM-EXMR: Tamai, Karl

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Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents (i)

Terms: patno=5422524 (Edit Search)

152687 (08) 5422524 June 6, 1995

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT **5422524**

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Link to Claims Section

June 6, 1995

Antifriction bearing and alternator incorporating same for use in vehicles **REISSUE:** Reissue Application filed Jun. 5, 1997 (O.G. Apr. 21, 1998) Ex. Gp.: 2102; Re. S.N. 08/869,844, (O.G. April 21, 1998)

June 9, 2002 - Reissue Application filed Ex. Gp.: 2834; Re. S.N. 10/040,627 (O.G. August 6, 2002)

January 21, 2003 - This Patent was reissued as Reissue Patent RE 37,967 (O.G. January 21, 2003)

INVENTOR: Nakamura, Sigenobu, Chiryu, JP; Siga, Tutomu, Aichi, JP; Mitani, Kenzo, Obu, JP; Fujita, Yoshiki, Osaka, JP; Kitamura, Masayuki, Osaka, JP; Miyazaki, Hiroyuki, Osaka, JP; Hoshino, Teruo, Osaka, JP

APPL-NO: 152687 (08)

FILED-DATE: November 16, 1993

GRANTED-DATE: June 6, 1995

PRIORITY: June 10, 1987 - 62145483, Japan (JP); June 10, 1987 - 62145484, Japan (JP)

ASSIGNEE-AT-ISSUE: Koyo Seiko Co., Ltd., Osaka, JP

Nippondenso Co., Ltd., Osaka, JP

ASSIGNEE-AFTER-ISSUE: January 26, 1998 - CHANGE OF NAME (SEE DOCUMENT FOR DETAILS)., DENSO CORPORATION 1-1, SHOWA- CHO KARIYA-SHI, AICHI-KEN JAPAN, Reel and Frame Number: 009123/0625

April 8, 2002 - CHANGE OF NAME (SEE DOCUMENT FOR DETAILS)., DENSO CORPORATION 1-1, SHOWA- CHO, KARIYA-SHI AICHI-KEN JAPAN, Reel and Frame Number: 012762/0568

LEGAL-REP: Nikaido, Marmelstein Murray & Oram

PUB-TYPE: June 6, 1995 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

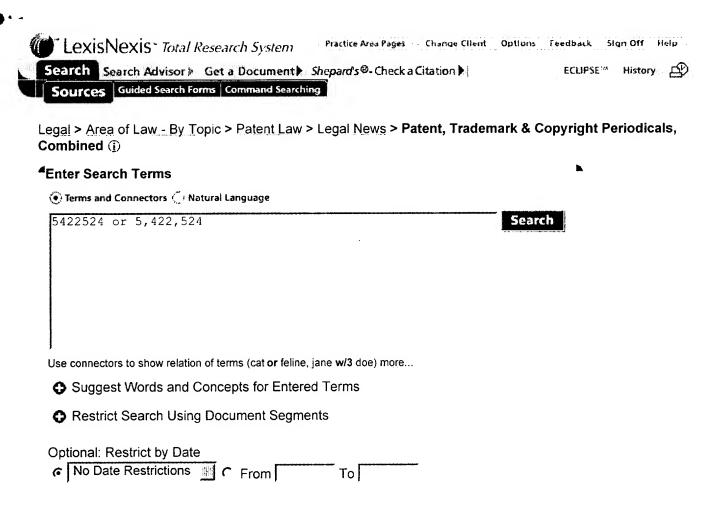
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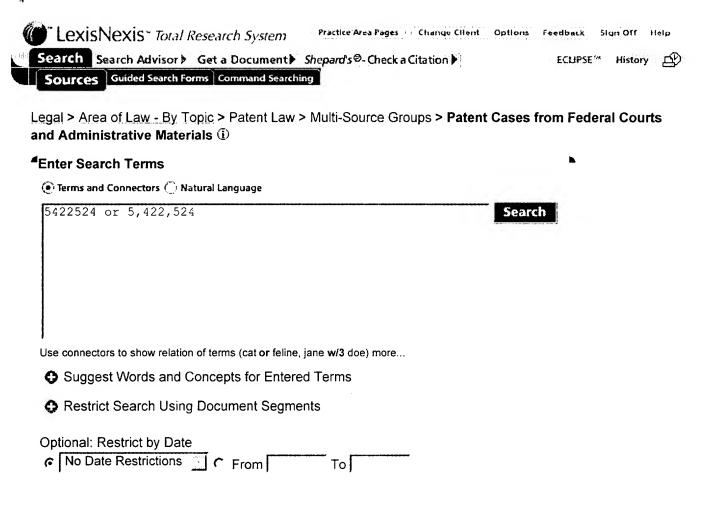
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Query/Command : usre37967/pn

** SS 1: Results 1

Search statement 2

Query/Command : prt fu legalall max

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1 / 1 PLUSPAT - @QUESTEL-ORBIT - image
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PN - USRE37967 E1 20030121 [USRE37967]

TI - (E1) Antifriction bearing and alternator incorporating same for use in vehicles

PA - (E1) KOYO SEIKO CO (JP); DENSO CORP (JP)

PAO - Koyo Seiko Company, Ltd., Osaka [JP]

Denso Corporation, Kariya [JP]

IN - (E1) KITAMURA MASAYUKI (JP); MIYAZAKI HIROYUKI (JP); NAKAMURA SIGENOBU (JP); HOSHINO TERUO (JP); SIGA TUTOMU (JP); FUJITA YOSHIKI (JP); MITANI KENZO (JP)

AP - US86984497 19970605 [1997US-0869844]

FD - Reissue of: US5422524 - 19950606

PR - US86984497 19970605 [1997US-0869844] JP14548387 19870610 [1987JP-0145483] JP14548487 19870610 [1987JP-0145484] US15268793 19931116 [1993US-0152687] US20397288 19880608 [1988US-0203972]

IC - (E1) F16C-035/00 H02K-005/16

EC - F16C-033/62 H02K-005/173C

PCL - ORIGINAL (O): 310090000; CROSS-REFERENCE (X): 029898140 310042000

DT - Corresponding document

CT - US4191599; US4240682; US4323401; US4429924; US4476405; US4546280; US4634908; US4696581; US4808226; AT362807; GB1361553; JP56-34615 Okamoto et al., Effect of SI and Retained Austenite on the Rolling Fatigue Life of Bearing Steel, Seititsu Kenkyu, No. 277, 1973.*

Tsushima et al., "Improvement of Rolling Contact Fatigue Life of Carburized Tapered Rolling Bearings", SAE Technical Paper 860725, Apr. 1986.*

Patent Abstracts of Japan, unexamined applications, section C, vol. 12, No. 82 (c-481), Mar. 15, 1988.

"Zwischenstufenumwandlung von Walzlagerstahlen," WTS 74 06 20, SKF Kugellagerfabriken GmBH (Feb. 1974).

E. Yamija et al., "Effects of Retained Austenite on the Rolling Fatigue Life of Ball Bearing Steels,"translation of article published in J. Japan Inst. Metals, vol. 36, p. 711 (1972).

Handbook of Metals, Japan Metal Society, Maruzen Co., Ltd. (Rev. 4th Ed., 1982), sections 7.6.1-7.6.2.

STG -(E1) Reissue Patent

AB -An antifriction bearing includes a fixed ring which comprises a steel containing up to about 10% of residual austenite. An alternator for vehicles includes a stator mounted on a frame, a rotor having its rotary shaft rotatably supported by a pair of bearings on the frame and a drive pulley mounted on one end of the shaft projecting outward from the frame. The outer ring of at least the bearing toward the pulley comprises a steel containing up to about 10% of residual austenite.

2003-05

1 / 1 LGST - ©LEGSTAT

PN -US 37967 [USRE37967]

AP -US 869844/97 19970605 [1997US-0869844]

DT -US-E

ACT -19970605 US/AE-A

APPLICATION DATA (PATENT)

US 869844/97 19970605 [1997US-0869844]

20030121 US/E1 [+] REISSUE (PRE-GRANT)

UP -2003-06

Query/Command : fam re37967/pn

1 Patent Groups ** SS 3: Results 6

Search statement 4

Query/Command : famstate nonstop

1 / 6 PLUSPAT - @QUESTEL-ORBIT

DE3851573 D1 19941027 [DE3851573] PN -

STG -(D1) Granted EP number in bulletin

OTI -(D1) Reibungsloses Lager und mit einem solchen Lager ausgerüsteter Fahrzeugalternator.

PA -

(D1) NIPPON DENSO CO (JP); KOYO SEIKO CO (JP)
(D1) NAKAMURA SIGENOBU (JP); SIGA TUTOMU (JP); MITANI KENZO IN -

(JP); FUJITA YOSHIKI (JP); KITAMURA MASAYUKI (JP)

(D1) F16C-033/62 H02K-005/173

DE3851573 T2 19950323 [DE3851573] PN2 -

(T2) Trans. Of EP patent STG2-

(T2) Reibungsloses Lager und mit einem solchen Lager ausgerüsteter OTI2-Fahrzeugalternator.

PA2 -(T2) NIPPON DENSO CO (JP); KOYO SEIKO CO (JP)

IN2 -(T2) NAKAMURA SIGENOBU (JP); SIGA TUTOMU (JP); MITANI KENZO

(JP); FUJITA YOSHIKI (JP); KITAMURA MASAYUKI (JP)

IC2 -(T2) F16C-033/62 H02K-005/173

DE3851573 19880609 [1988DE-3851573] JP14548387 19870610 [1987JP-0145483] AP -PR -JP14548487 19870610 [1987JP-0145484]

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PN -
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       19941027 DE/REF-P
       CORRESPONDS TO
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       19950323 DE/8373
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       19950921 DE/8363 [-]
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       2000012C DE/8331 [-]
       COMPLETE REVOCATION
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      EP 294813 [EP-294813]
      EP 88109225/88 19880609 [1988EP-0109225]
AP -
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ACTE-
      19880609 EP/AE-A
       EP-APPLICATION
       EP 88109225/88 19880609 [1988EP-0109225]
       19881214 EP/AK-A2 [+]
       DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH
       REPORT:
       DE FR GB IT
       19881214 EP/A2 [+]
       PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT
       19900110 EP/AK-A3 [+]
       DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
       DE FR GB IT
       19900110 EP/A3 [+]
       SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)
       19900620 EP/17P [+]
       REQUEST FOR EXAMINATION FILED
       900421
       19911211 EP/17Q (+)
       FIRST EXAMINATION REPORT
       911024
       19940921 EP/AK-B1 [+]
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       DE FR GB IT
       19940921 EP/B1 [+]
       PATENT SPECIFICATION
       19941027 EP/REF-P
       CORRESPONDS TO:
       (DE 3851573 19941027 [DE3851573])
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19941110 EP/ET [+]
       FR: TRANSLATION FILED
       19941206 EP/ITF [-]
        IT: TRANSLATION FOR A EP PATENT FILED
        STUDIO TORTA SOCIETA' SEMPLICE
       19950816 EP/26 [-]
       OPPOSITION FILED
       950619 AB SKF
       19991215 EP/GBPR [-]
       GB: PATENT REVOKED UNDER ART. 102 OF THE EP CONVENTION DESIGNATING
       THE JK AS CONTRACTING STATE
       991024
       19991215 EP/27W [-]
       REVOKED
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PN -
       EP0294813 A2 19881214 [EP-294813]
STG -
       (A2) Pub. Of applic. Without search report
TI -
       (A2) Antifriction bearing and alternator incorporating same for
       use in vehicles.
OTI -
       (A2) Reibungsloses Lager und mit einem solchen Lager ausgerüsteter
       Fahrzeugalternator.
        (A2) Palier antifriction et alternateur de véhicule comprenant un
       tel palier.
PA -
      (A2) KOYO SEIKO CO (JP); NIPPON DENSO CO (JP)
IN -
       (A2) KITAMURA MASAYUKI; NAKAMURA SIGENOBU; SIGA TUTOMU; FUJITA
       YOSHIKI; MITANI KENZO
IC -
       (A2) F16C-033/62 H02K-005/173
PN2 - EP0294813 A3 19900110 [EP-294813]
STG2-
       (A3) Publi. Of search report
      (A3) ANTIFRICTION BEARING AND ALTERNATOR INCORPORATING SAME FOR
TT2 -
       USE IN VEHICLES
PN3 -
      EP0294813 B1 19940921 [EP-294813]
STG3-
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TI3 -
       (B1) Antifriction bearing and alternator incorporating same for
       use in vehicles.
OTI3-
       (B1) Reibungsloses Lager und mit einem solchen Lager ausgerüsteter
       Fahrzeugalternator.
        (B1) Palier antifriction et alternateur de véhicule comprenant un
       tel palier.
PA3 -
        (B1) KOYO SEIKO CO (JP); NIPPON DENSO CO (JP)
IN3 -
        (B1) KITAMURA MASAYUKI (JP); NAKAMURA SIGENOBU (JP); SIGA TUTOMU
        (JP); FUJITA YOSHIKI (JP); MITANI KENZO (JP)
TC3 -
        (B1) F16C-033/62 H02K-005/173
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LA -
AP -
      EP88109225 19880609 [1988EP-0109225]
PR - JP14548387 19870610 [1987JP-0145483]
       JP14548487 19870610 [1987JP-0145484]
EC -
      F16C-C33/62
       H02K-005/173C
DS
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DT -
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PN -
       DE 3851573 [DE3851573]
DT -
       DE-P
       19941027 DE/REF-P
ACTE-
       CORRESPONDS TO
        (EP 294813 19941027 [EP-294813])
       19950323 DE/8373
       TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND
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       19950921 DE/8363 [-]
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       COMPLETE REVOCATION
       2000-03
UP -
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AP -
       EP 88109225/88 19880609 [1988EP-0109225]
DT -
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       19880609 EP/AE-A
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       19881214 EP/A2 [+]
       PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT
       19900110 EP/AK-A3 [+]
       DESIGNATED CONTRACTING STATES IN A SHARCH REPORT:
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       19900110 EP/A3 [+]
       SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)
       19900620 EP/17P [+]
       REQUEST FOR EXAMINATION FILED
       900421
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       19941027 EP/REF-P
       CORRESPONDS TO:
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FR: TRANSLATION FILED
        19941206 EP/ITF [+]
        IT: TRANSLATION FOR A EP PATENT FILED
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        19991215 EP/GBPR [-]
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        19991215 EP/27W [-]
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       2000-03
3 / 6
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PN -
        JP63308218 A 19881215 [JP63308218]
        (A) Doc. Laid open to publ. Inspec.
STG -
TI -
        (A) ROLLING BEARING
PA -
        (A) KOYO SEIKO CO; NIPPON DENSO CO
PAO -
        (A) KOYO SEIKO CO LTD; NIPPON DENSC CO LTD
        (A) KITAMURA MASAYUKI; MIYAZAKI HIROYUKI; HOSHINO TERUO; FUJITA
IN -
        YOSHIKI; NAKAMURA SHIGENOBU; MITANI KENZOU; SHIGA TSUTOMU
IC -
      (A) F16C-033/62
AP - JP14548387 19870610 [1987JP-0145483]
PR - JP14548387 19870610 [1987JP-0145483]
4 / 6 PLUSPAT - @QUESTEL-ORBIT - image
PN -
       JP63308219 A 19881215 [JP63308219]
STG -
        (A) Doc. Laid open to publ. Inspec.
TI -
        (A) AC GENERATOR FOR VEHICLE
PA -
       (A) NIPPON DENSO CO; KOYO SEIKO CO
PAO - (A) NIPPON DENSO CO LTD; KOYO SEIKO CO LTD
IN - (A) NAKAMURA SHIGENOBU; MITANI KENZOU; SHIGA TSUTOMU; KITAMURA
       MASAYUKI; FUJITA YOSHIKI
IC - (A) F16C-033/62 H02K-007/08
PN2 - JP7072565 B 19950802 [JP95072565]
STG2-
      (B) Publd. Examined patent applic.
IC2 -
      (B) F16C-033/62
       JP14548487 19870610 [1987JP-0145484]
JP14548487 19870610 [1987JP-0145484]
AP -
5 / 6
       PLUSPAT - @QUESTEL-ORBIT - image
PN -
       US5422524 A 19950606 [US5422524]
STG -
      (A) United States patent
      (A) Antifriction bearing and alternator incorporating same for use
        in vehicles
        (A) KOYO SEIKO CO (JP); NIPPON DENSO CO (JP)
PA -
        Koyo Seiko Company, Ltd., Osaka [JP]
PA0 -
       Nippondenso Company, Ltd., Csaka [JP]
(A) KITAMURA MASAYUKI (JP); MIYAZAKI HIROYUKI (JP); NAKAMURA
IN -
        SIGENOBU (JP); HOSHINO TERUO (JP); SIGA TUTOMU (JP); FUJITA
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YOSHIKI (JP); MITANI KENZO (JP)
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JP14548387 19870610 [1987JP-0145483]

JP14548487 19870610 [1987JP-0145484]

US20397288 19880608 [1983US-0203972]
PR -
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        H02K-005/173C
PCL - ORIGINAL (O): 310090000; CROSS-REFERENCE (X): 029898140
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DT - Corresponding document
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        US 152687/93 19931116 [1993US-0152687]
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DT -
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ACTE-
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        19950606 US/A
        PATENT
        19980126 US/AS01
        CHANGE OF NAME
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        NIPPONDENSO CO., LTD.: 19970807
        19980421 US/RF
        REISSUE APPLICATION FILED
        970605
        20020806 US/RF
        REISSUE APPLICATION FILED
        20020109
      2002-35
UP -
6 / 6 PLUSPAT - @QUESTEL-ORBIT - image
PN -
      USRE37967 E1 20030121 [USRE37967]
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TI -
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PA -
        (E1) KOYO SEIKO CO (JP); DENSO CORP (JP)
PA0 -
        Koyo Seiko Company, Ltd., Osaka [JP]
        Denso Corporation, Kariya [JP]
IN -
        (E1) KITAMURA MASAYUKI (JP); MIYAZAKI HIROYUKI (JP); NAKAMURA
        SIGENOBU (JP); HOSHINO TERUO (JP); SIGA TUTOMU (JP); FUJITA
        YOSHIKI (JP); MITANI KENZO (JP)
        (E1) F16C-C35/00 HC2K-005/16
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AP -
        US86984497 19970605 [1997US-0869844]
PR -
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PCL - ORIGINAL (0): 310090000; CROSS-REFERENCE (X): 029898140
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310042000

DT - Corresponding document
UP - 2003-05

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DT - US-E

ACTE- 19970605 US/AE-A

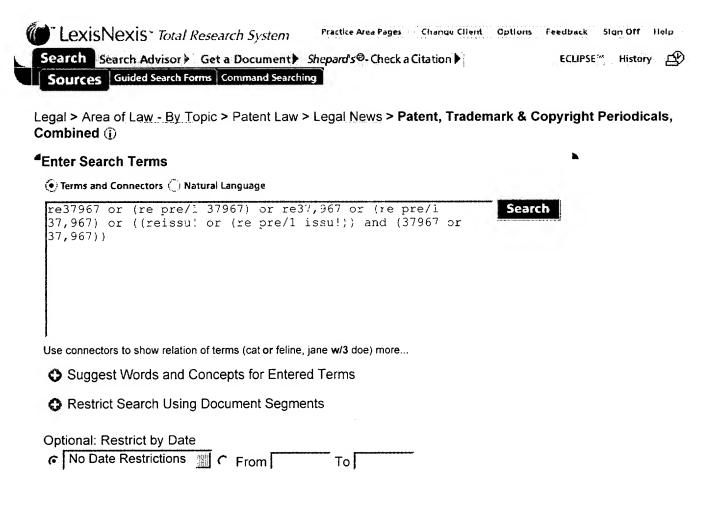
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20030121 US/E1 [+] REISSUE (PRE-GRANT)

UP - 2003-06

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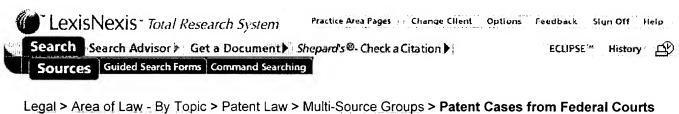
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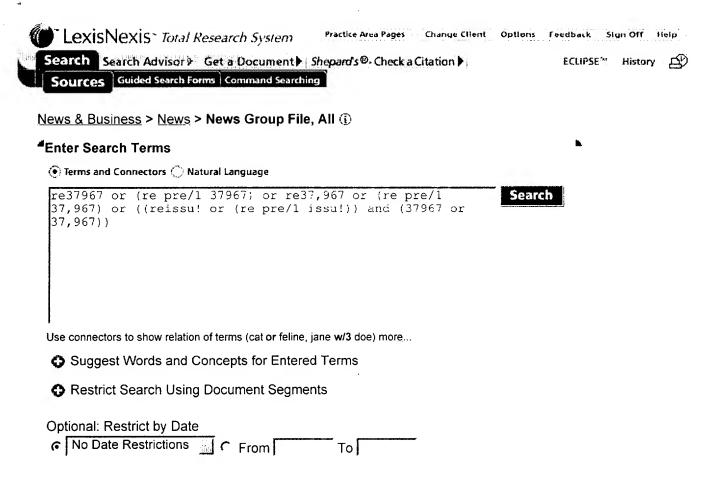
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